

IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A golf ball comprising:
a core;
a layer disposed about the core having a hardness of about 30 Shore D or greater, a flexural modulus of about 1,000 psi to about 80,000 psi, and a thickness of about 0.01 inches to about 0.100 inches, wherein the layer is formed from a thermoplastic composition comprising p-phenylene diisocyanate and at least one hydroxy-terminated curing agent selected from the group consisting of poly(phthalate carbonate) glycol, poly(hexamethylene carbonate) glycol, polycarbonate polyols containing bisphenol A, and mixtures thereof; and
a cover having a hardness of about 20 Shore D or greater, a flexural modulus of about 1,000 psi to about 30,000 psi, and a thickness of about 0.01 inches to about 0.05 inches, wherein the cover is formed from a thermoset material.

2. (Original) The golf ball of claim 1, wherein the core comprises a center and an outer core layer, and wherein the center has a diameter of about 0.5 inches to about 1.3 inches.

3. (Canceled)

4. (Currently Amended) The golf ball of claim ~~[[3]]~~ 1, wherein the ~~thermoplastic composition further comprises a at least one~~ hydroxy-terminated curing agent ~~[[is]]~~ selected from the group consisting of polyethylene propylene glycol, polytetramethylene ether glycol, polyoxypropylene glycol, ethylene oxide capped poly(oxypropylene) glycol, and mixtures thereof.

5. (Currently Amended) The golf ball of claim ~~[[3]]~~ 1, wherein the ~~thermoplastic composition further comprises a at least one~~ hydroxy-terminated curing agent ~~[[is]]~~ selected from the group consisting of 1,6-hexanediol-initiated polycaprolactone, diethylene glycol initiated polycaprolactone, trimethylol propane initiated polycaprolactone, neopentyl glycol initiated polycaprolactone, 1,4-butanediol-initiated polycaprolactone, polytetramethylene ether glycol initiated polycaprolactone, and mixtures thereof.

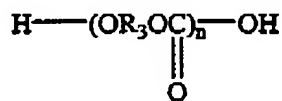
6. — 21. (Canceled)

22. (Currently Amended) A golf ball comprising:

a core;

a layer disposed about the core having a hardness of about 30 Shore D or greater, a flexural modulus of about 1,000 psi to about 80,000 psi, and a thickness of about 0.01 inches to about 0.100 inches, wherein the intermediate layer is formed from a thermoset material; and

a cover having a hardness of about 20 Shore D or greater, a flexural modulus of about 1,000 psi to about 30,000 psi, and a thickness of about 0.01 inches to about 0.05 inches, wherein the cover is formed from a thermoplastic composition comprising p-phenylene diisocyanate and at least one hydroxy-terminated curing agent having the following structure:



wherein R₃ comprises at least one phthalate group, at least one hexamethylene group, at least one bisphenol A group, or combinations thereof, and wherein n ranges from about 1 to about 25.

23. (Original) The golf ball of claim 22, wherein the core comprises a center and an outer core layer, and wherein the center has a diameter of about 0.5 inches to about 1.3 inches.

24. (Original) The golf ball of claim 22, wherein the thermoplastic composition further comprises at least one density-adjusting filler.

Please add the following new claims:

25. (New) The golf ball of claim 1, wherein the thermoset material comprises polyurethane, polyurea, or combinations thereof.

26. (New) The golf ball of claim 1, wherein the core has a diameter of about 1.55 inches

or greater.

27. (New) The golf ball of claim 1, wherein the cover has a thickness of about 0.025 inches to about 0.04 inches.

28. (New) The golf ball of claim 1, wherein the layer has a thickness of about 0.01 to about 0.045 inches.

29. (New) The golf ball of claim 1, wherein the layer has a hardness of about 50 to about 75 Shore D.

30. (New) The golf ball of claim 1, wherein the cover has a hardness of about 35 Shore D to about 55 Shore D.

31. (New) The golf ball of claim 22, wherein the thermoset material comprises polyurethane, polyurea, or polybutadiene.

32. (New) The golf ball of claim 22, wherein the thermoplastic composition comprises an additional curing agent.

33. (New) The golf ball of claim 32, wherein the additional curing agent comprises hydroxy-terminated curing agents, amine-terminated curing agents, or a combination thereof.

34. (New) The golf ball of claim 22, wherein the layer has a first hardness and the cover has a second hardness, and wherein the ratio of the second hardness to first hardness is about 1.33 or less.

35. (New) The golf ball of claim 34, wherein the ratio of the second hardness to first hardness is about 1.14 or less.

36. (New) The golf ball of claim 22, wherein the cover has a hardness of about 54 Shore D to 72 Shore D.

37. (New) The golf ball of claim 22, wherein the at least one hydroxy terminated curing agent is selected from the group consisting of poly(phthalate carbonate) glycol, poly(hexamethylene carbonate) glycol, polycarbonate polyols containing bisphenol A, and mixtures thereof.